Atty Dkt No. GP-303804 (GM-0446PUS)

Listing of Claims

 (currently amended) A multi-speed transmission comprising: an input shaft;
 an output shaft;

first, second and third planetary gear sets each having first, second and third members;

said input shaft being continuously interconnected with a member of said planetary gear sets, and said output shaft being continuously interconnected with another member of said planetary gear sets;

a first interconnecting member continuously interconnecting said first member of said first planetary gear set with said first member of said second planetary gear set;

a second interconnecting member continuously interconnecting said second member of said first planetary gear set with said second member of said second planetary gear set;

a third interconnecting member continuously interconnecting said third member of said second planetary gear set with said first member of said third planetary gear set;

a first torque-transmitting mechanism selectively interconnecting a member of said first planetary gear set with a member of said third planetary gear set;

a second torque-transmitting mechanism selectively interconnecting a member of said <u>first or</u> second planetary gear set with a member of said third planetary gear set;

a third torque-transmitting mechanism selectively interconnecting a member of said first, second or third planetary gear set with another member of said first, second or third planetary gear set, said pair of members interconnected by said third torque transmitting mechanism being different from said pair of members interconnected by said first torque-transmitting mechanism;

a fourth torque-transmitting mechanism selectively interconnecting a member of said first or second third planetary gear set with a stationary member;

a fifth torque-transmitting mechanism selectively interconnecting a member of said second first or third planetary gear set with said stationary member;

Atty Dkt No. GP-303804 (GM-0446PUS)

a sixth torque-transmitting mechanism selectively interconnecting a member of said second planetary gear set with another a member of said first, second or third planetary gear set, or with said stationary member,

a seventh torque-transmitting mechanism selectively interconnecting a member of said first, second or third planetary gear set with another member of said first, second or third planetary gear set, or with said stationary member, said pair of members interconnected by said seventh torque-transmitting mechanism being different from said pair of members interconnected by said first, third, fourth or fifth torque-transmitting mechanisms; and

said torque-transmitting mechanisms being engaged in combinations of two to establish at least eight forward speed ratios and at least one reverse speed ratio between said input shaft and said output shaft.

- 2. (original) The transmission defined in claim 1, wherein said first, second and third torque-transmitting mechanisms comprise clutches, and said fourth, fifth, sixth and seventh torque-transmitting mechanisms comprise brakes.
- 3. (original) The transmission defined in claim 1, wherein said first, second, third and sixth torque-transmitting mechanisms comprise clutches, and said fourth, fifth and seventh torque-transmitting mechanisms comprise brakes.
- 4. (original) The transmission defined in claim 1, wherein said first, second, third and seventh torque-transmitting mechanisms comprise clutches, and said fourth, fifth and sixth torque-transmitting mechanisms comprise brakes.
- 5. (original) The transmission defined in claim 1, wherein said first, second, third, sixth and seventh torque-transmitting mechanisms comprise clutches, and said fourth and fifth torque-transmitting mechanisms comprise brakes.
- 6. (original) The transmission defined in claim 1, wherein planet carrier assembly members of each of said planetary gear sets are single-pinion carriers.

Atty Dkt No. GP-303804 (GM-0446PUS)

- 7. (original) The transmission defined in claim 1, wherein at least one planet carrier assembly member of said planetary gear sets is a double-pinion carrier.
 - (currently amended) A multi-speed transmission comprising:
 an input shaft;
 an output shaft;

a planetary gear arrangement having first, second and third planetary gear sets, each planetary gear set having first, second and third members;

said input shaft being continuously interconnected with a member of said planetary gear sets, and said output shaft being continuously interconnected with another member of said planetary gear sets,

a first interconnecting member continuously interconnecting said first member of said first planetary gear set with said first member of said second planetary gear set;

a second interconnecting member continuously interconnecting said second member of said first planetary gear set with said second member of said second planetary gear set;

a third interconnecting member continuously interconnecting said third member of said second planetary gear set with said first member of said third planetary gear set;

wherein the transmission includes only said first, second and third interconnecting members continuously connecting said members of said gear sets; and

seven torque-transmitting mechanisms for selectively interconnecting said members of said planetary gear sets with a stationary member or with other members of said planetary gear sets for common rotation, said seven torque-transmitting mechanisms being engaged in combinations of two to establish at least eight forward speed ratios and at least one reverse speed ratio between said input shaft and said output shaft.

9. (original) The transmission defined in claim 8, wherein a first of said seven torque-transmitting mechanisms is operable for selectively interconnecting a member of said first planetary gear set with a member of said third planetary gear set.

Atty Dkt No. GP-303804 (GM-0446PUS)

- 10. (original) The transmission defined in claim 8, wherein a second of said seven torque-transmitting mechanisms is operable for selectively interconnecting a member of said second planetary gear set with a member of said third planetary gear set.
- 11. (currently amended) The transmission defined in claim 8, wherein a third of said seven torque-transmitting mechanisms is selectively operable for interconnecting a member of said first, second or third planetary gear set with another member of said first, second or third planetary gear set, said pair of members interconnected by said third torque-transmitting mechanism being different from said pair of members interconnected by said first torque-transmitting mechanism.
- 12. (currently amended) The transmission defined in claim 8, wherein a fourth of said seven torque-transmitting mechanisms is selectively operable for interconnecting a member of said first or second third planetary gear set with said stationary member.
- 13. (currently amended) The transmission defined in claim 8, wherein a fifth of said seven torque-transmitting mechanisms is selectively operable for interconnecting a member of said second first or third planetary gear set with said stationary member, said member interconnected by said fifth torque-transmitting mechanism being different from said member interconnected by said fourth torque-transmitting mechanism.
- 14. (currently amended) The transmission defined in claim 8, wherein a sixth of said seven torque-transmitting mechanisms selectively interconnects a member of said second planetary gear set with another a member of said first, second or third planetary gear set or with said stationary member.
- 15. (currently amended) The transmission defined in claim 8, wherein a seventh of said seven torque-transmitting mechanisms selectively interconnects a member of said first, second or third planetary gear set with another member of said first, second or third planetary gear set or with said stationary member, said pair of members interconnected by said

Atty Dkt No. GP-303804 (GM-0446PUS)

seventh torque-transmitting mechanism being different from said pair of members interconnected by said first, third, fourth or fifth torque-transmitting mechanism.

- 16. (original) The transmission defined in claim 8, wherein planet carrier assembly members of each of said planetary gear sets are single-pinion carriers.
- 17. (original) The transmission defined in claim 8, wherein at least one planet carrier assembly member of said planetary gear sets is a double-pinion carrier.
- 18. (original) The transmission defined in claim 8, wherein at least nine forward speed ratios and a reverse speed ratio are established.